

THE ASTROPHYSICAL JOURNAL LETTERS

CONTENTS OF VOLUME 545, PART 2

2000 DECEMBER 10, NUMBER 1

	Page
CONSTRAINTS ON COSMOLOGICAL PARAMETERS FROM MAXIMA-1	L1
<i>A. Balbi, P. Ade, J. Bock, J. Borrill, A. Boscaleri, P. de Bernardis, P. G. Ferreira, S. Hanany, V. Hristov, A. H. Jaffe, A. T. Lee, S. Oh, E. Pascale, B. Rabii, P. L. Richards, G. F. Smoot, R. Stompor, C. D. Winant, and J. H. P. Wu</i>	
MAXIMA-1: A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND ANISOTROPY ON ANGULAR SCALES OF 10°–5°	L5
<i>S. Hanany, P. Ade, A. Balbi, J. Bock, J. Borrill, A. Boscaleri, P. de Bernardis, P. G. Ferreira, V. V. Hristov, A. H. Jaffe, A. E. Lange, A. T. Lee, P. D. Mauskopf, C. B. Netterfield, S. Oh, E. Pascale, B. Rabii, P. L. Richards, G. F. Smoot, R. Stompor, C. D. Winant, and J. H. P. Wu</i>	
FLUCTUATIONS IN THE RADIO BACKGROUND FROM INTERGALACTIC SYNCHROTRON EMISSION	L11
<i>Eli Waxman and Abraham Loeb</i>	
THE DEMISE OF THE CLASSICAL BROAD-LINE REGION IN THE LUMINOUS QUASAR PG 1416+129	L15
<i>J. W. Sulentic, P. Marziani, T. Zwitter, D. Dultzin-Hacyan, and M. Calvani</i>	
TWO HIGHLY POLARIZED QUASI-STELLAR OBJECTS DISCOVERED BY THE TWO MICRON ALL SKY SURVEY	L19
<i>Paul S. Smith, Gary D. Schmidt, Dean C. Hines, Roc M. Cutri, and Brant O. Nelson</i>	
ASCA OBSERVATION OF AN X-RAY–LUMINOUS ACTIVE NUCLEUS IN MARKARIAN 231	L23
<i>Philip R. Maloney and Christopher S. Reynolds</i>	
SPACE TELESCOPE IMAGING SPECTROGRAPH ECHELLE OBSERVATIONS OF NGC 4151: VARIABLE IONIZATION OF THE INTRINSIC UV ABSORBERS	L27
<i>D. M. Crenshaw, S. B. Kraemer, J. B. Hutchings, A. C. Danks, T. R. Gull, M. E. Kaiser, C. H. Nelson, and D. Weistrop</i>	
A COMPACT POPULATION OF RED GIANTS IN THE BLUE COMPACT DWARF GALAXY UGCA 290	L31
<i>Mary M. Crone, Regina E. Schulte-Ladbeck, Ulrich Hopp, and Laura Greggio</i>	
THE SO-CALLED “BAR” IN THE LARGE MAGELLANIC CLOUD	L35
<i>HongSheng Zhao and N. Wyn Evans</i>	
DISCOVERY OF A REDSHIFTED IRON K LINE IN THE X-RAY AFTERGLOW OF GRB 000214	L39
<i>L. A. Antonelli, L. Piro, M. Vietri, E. Costa, P. Soffitta, M. Feroci, L. Amati, F. Frontera, E. Pian, J. J. M. in ’t Zand, J. Heise, E. Kuulkers, L. Nicastro, R. C. Butler, L. Stella, and G. C. Perola</i>	
EVIDENCE OF A PRONOUNCED ACTIVITY CYCLE IN THE SOLAR TWIN 18 SCORPII	L43
<i>Jeffrey C. Hall and G. W. Lockwood</i>	
A LACK OF PLANETS IN 47 TUCANAE FROM A HUBBLE SPACE TELESCOPE SEARCH	L47
<i>Ronald L. Gilliland, T. M. Brown, P. Guhathakurta, A. Sarajedini, E. F. Milone, M. D. Albrow, N. R. Baliber, H. Bruntt, A. Burrows, D. Charbonneau, P. Choi, W. D. Cochran, P. D. Edmonds, S. Frandsen, J. H. Howell, D. N. C. Lin, G. W. Marcy, M. Mayor, D. Naef, S. Sigurdsson, C. R. Stagg, D. A. Vandenberg, S. S. Vogt, and M. D. Williams</i>	
THE EXPANSION OF THE X-RAY REMNANT OF TYCHO’S SUPERNOVA (SN 1572)	L53
<i>John P. Hughes</i>	
CHANDRA X-RAY OBSERVATORY DETECTION OF EXTENDED X-RAY EMISSION FROM THE PLANETARY NEBULA BD +30°3639	L57
<i>Joel H. Kastner, Noam Soker, Saeqa D. Vrtilek, and Ruth Dgani</i>	
PROTOSTELLAR FRAGMENTATION ENHANCED BY MAGNETIC FIELDS	L61
<i>Alan P. Boss</i>	
SOURCE DEPTH FOR SOLAR <i>p</i>-MODES	L65
<i>Pawan Kumar and Sarbani Basu</i>	
SOLAR AND HELIOSPHERIC OBSERVATORY SUNGRAZING COMETS WITH PROMINENT TAILS: EVIDENCE ON DUST-PRODUCTION PECULIARITIES	L69
<i>Zdenek Sekanina</i>	
INSTRUCTIONS TO AUTHORS OF LETTERS, AND ADDITIONAL USEFUL INFORMATION	<i>Inside Back Cover</i>
INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION	<i>Back Cover</i>

CONTENTS

2000 DECEMBER 20, NUMBER 2

	<i>Page</i>
Fe K α EMISSION FROM A DECAYING MAGNETAR MODEL OF GAMMA-RAY BURSTS <i>M. J. Rees and P. Mészáros</i>	L73
EARLY OBSERVATIONS OF THE AFTERGLOW OF GRB 000301c <i>S. G. Bhargavi and R. Cowsik</i>	L77
CHANDRA OBSERVATIONS OF THE X-RAY NARROW-LINE REGION IN NGC 4151 <i>P. M. Ogle, H. L. Marshall, J. C. Lee, and C. R. Canizares</i>	L81
FIRST RESULTS FROM THE LARGE-AREA LYMAN ALPHA SURVEY <i>James E. Rhoads, Sangeeta Malhotra, Arjun Dey, Daniel Stern, Hyron Spinrad, and Buell T. Jannuzi</i>	L85
THE PEAK BRIGHTNESS AND SPATIAL DISTRIBUTION OF ASYMPTOTIC GIANT BRANCH STARS NEAR THE NUCLEUS OF M32 <i>T. J. Davidge, F. Rigaut, M. Chun, W. Brandner, D. Potter, M. Northcott, and J. E. Graves</i>	L89
MOLECULAR GAS IN THE POWERFUL RADIO GALAXIES 3C 31 AND 3C 264: MAJOR OR MINOR MERGERS? <i>Jeremy Lim, Stephane Leon, Françoise Combes, and Dinh-V-Trung</i>	L93
FIRST DETECTION OF CO IN A LOW SURFACE BRIGHTNESS GALAXY <i>K. O'Neil, P. Hofner, and E. Schinnerer</i>	L99
NUMEROUS OLD STARBURST GALAXIES IN THE LOCAL UNIVERSE <i>Hideaki Mouri and Yoshiaki Taniguchi</i>	L103
FORMATION OF A MASSIVE BLACK HOLE AT THE CENTER OF THE SUPERBUBBLE IN M82 <i>Satoki Matsushita, Ryohji Kawabe, Hironori Matsumoto, Takeshi G. Tsuru, Kotaro Kohno, Koh-Ichiro Morita, Sachiko K. Okumura, and Baltasar Vila-Vilaró</i>	L107
TENTATIVE DETECTION OF CO $^+$ TOWARD CYGNUS A <i>A. Fuente, J. H. Black, J. Martín-Pintado, A. Rodríguez-Franco, S. García-Burillo, P. Planesas, and J. Lindholm</i>	L113
POLARIZED MILLIMETER AND SUBMILLIMETER EMISSION FROM SAGITTARIUS A* AT THE GALACTIC CENTER <i>Fulvio Melia, Siming Liu, and Robert Coker</i>	L117
A DEEP SUBMILLIMETER SURVEY OF THE GALACTIC CENTER <i>D. Pierce-Price, J. S. Greaves, W. S. Holland, T. Jenness, A. N. Lasenby, G. J. White, H. E. Matthews, D. Ward-Thompson, W. R. F. Dent, R. Zylka, P. Mezger, T. Hasegawa, T. Oka, A. Omont, and G. Gilmore</i>	L121
NATURE AND NURTURE: A MODEL FOR SOFT GAMMA-RAY REPEATERS <i>Bing Zhang, R. X. Xu, and G. J. Qiao</i>	L127
ON THE MASS-DONATING STAR IN GRSS 1915+105 <i>Stephen S. Eikenberry and Reba M. Bandyopadhyay</i>	L131
X-RAY LINE EMISSION FROM THE HOT STELLAR WIND OF θ 1 ORIONIS C <i>N. S. Schulz, C. R. Canizares, D. Huenemoerder, and J. C. Lee</i>	L135
DETECTION OF DISK ACCRETION AT THE SUBSTELLAR LIMIT <i>J. Muzerolle, C. Briceño, N. Calvet, L. Hartmann, L. Hillenbrand, and E. Gullbring</i>	L141
DISCOVERY OF PARSEC-SIZED DUST SHELLS AROUND AFGL 2688 AND AFGL 618 <i>A. K. Speck, M. Meixner, and G. R. Knapp</i>	L145
ROTATION IN THE ENVELOPE OF AN EVOLVED STAR: OBSERVATIONS OF THE SiO MASERS TOWARD NML CYGNI <i>David A. Boboltz and Kevin B. Marvel</i>	L149
THE MAGNETIC GEOMETRY OF PULSED ASTROPHYSICAL JETS <i>T. A. Gardiner and A. Frank</i>	L153
NEW PROPERTIES OF 3 He-RICH SOLAR FLARES DEDUCED FROM LOW-ENERGY PARTICLE SPECTRA <i>G. M. Mason, J. R. Dwyer, and J. E. Mazur</i>	L157
EMISSION-LINE INTENSITY RATIOS IN Fe xvii OBSERVED WITH A MICROCALORIMETER ON AN ELECTRON BEAM ION TRAP <i>J. M. Laming, I. Kink, E. Takacs, J. V. Porto, J. D. Gillaspay, E. H. Silver, H. W. Schnopper, S. R. Bandler, N. S. Brickhouse, S. S. Murray, M. Barbera, A. K. Bhatia, G. A. Doschek, N. Madden, D. Landis, J. Beeman, and E. E. Haller</i>	L161
X-RAY PHOTOABSORPTION IN KLL RESONANCES OF O vi AND ABUNDANCE ANALYSIS <i>Anil K. Pradhan</i>	L165

CONTENTS

v

INSTRUCTIONS TO AUTHORS OF LETTERS, AND ADDITIONAL USEFUL INFORMATION

Inside Back Cover

INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION

Back Cover